

SEQUENCE LISTING

<110> Jean-Louis RUELLE

<120> BASB019 Proteins and Genes from
Moraxella Catarrhalis, Antigens, Antibodies, and Uses

<130> BM45311

<140> 09/674,779

<141> 2001-01-03

<150> 98096837

<151> 1998-05-06

<160> 4

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 753

<212> DNA

<213> Moraxella catarrhalis

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cctgaccttg aaataaaaag ccaggcactg tatgagcttc aaaaccgcct atgccaatat	600
tggctagagc atggcgaaaa ccaaaatttt gggctgggtt tatacgccac aggggcgatt	660
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<212> PRT

<213> Moraxella catarrhalis

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Leu Val Ala Cys Ser Ala Pro Ile Pro Thr Asn Pro Gln Val Ser Pro	
20 25 30	
Ile Lys Thr Pro Ser Val Leu Ile Thr Lys Asp Lys Ile Gly Asp His	
35 40 45	
His Thr His Glu His Asp Glu Ser Val Ser His Val Gly Leu Gln Ala	

50		55		60
His Phe Glu Thr Trp	Leu Gln Met His His	Ala Thr Lys Gln Glu Val		
65	70	75		80
Val Arg Tyr Gln Ala	Tyr Leu Gln Ser Arg	Leu Gly Asn Tyr Leu Pro		
	85	90		95
Pro Met Ser Gln Leu	Leu Thr Thr Ala	Arg Ser Trp Gln Ala Cys Gly		
	100	105		110
His Glu Pro Tyr Gln	Leu Pro Pro Glu	His Leu Trp Gly Gln Ile Val		
	115	120		125
Pro Thr Leu His Leu	Tyr Gln Asp Leu	Lys Ser Arg Gly Ile Leu Pro		
	130	135		140
Ala Asn Thr Gln Ile	Arg Ser Val Tyr	Arg Asn Pro Glu Leu Asn Gln		
145	150	155		160
Cys Ala Gly Gly Ala	Ala Met Ser Lys	His Leu Thr Asn Ser Ala Ile		
	165	170		175
Asp Ile Trp Val Pro	Asp Leu Glu Ile	Lys Ser Gln Ala Leu Tyr Glu		
	180	185		190
Leu Gln Asn Arg Leu	Cys Gln Tyr Trp	Leu Glu His Gly Glu Asn Gln		
	195	200		205
Asn Phe Gly Leu Gly	Leu Tyr Ala Thr	Gly Ala Ile His Leu Asp Thr		
	210	215		220
Gln Gly Phe Arg Lys	Trp Gly Ala Gln	Phe Ser Glu Thr Asn Ser Ile		
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Cys Arg His Val Leu	Pro Lys Asn Lys	Leu		
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